

# SEMINAR ON UNDERSTANDING OF SOIL BEHAVIOR, TESTING AND GEOSYNTHETIC APPLICATIONS

**BEM Approved CPD: 15**  
**Ref. No.: IEM23/HQ/353/S**

## Speakers:

**Prof. Fumio Tatsuoka, Mr Takuya Kosaka,  
Mr. Mike Dobie, Ir Dr Loke Kean Hooi,  
Ir. Allan Chwee Yew Lun, Ir. Saiffuddin bin Sheafi, Ir. Marcus  
Jong, & Ir. ALbert Lim**

**19 - 20 OCTOBER 2023**  
**THURSDAY - FRIDAY**  
**9.00 AM - 6.00 PM**  
**HILTON HOTEL, PETALING JAYA**

### Registration Fee (subject to 6% SST)

Grade	Normal Fee	Online Fee (Through IEM Portal)
IEM Student Member	RM 300.00	RM 250.00
IEM Member	RM 750.00	RM 700.00
Non-IEM Member	RM 1,300.00	RM 1,200.00



APPROVED DURATION:  
21/9/2023 - 24/9/2024  
HRD CORP SERIAL NO:  
**10001344163**

# SYNOPSIS

The use of geosynthetics in civil engineering has proven to be immensely beneficial but it also comes with its fair share of challenges. These challenges are lack of understanding on applications and advancement of geosynthetic applications. It is also important to understand the relationship between geosynthetics and soil, as most geosynthetics work in tandem with soil by leveraging their mechanical properties to modify, enhance, or control soil behavior.

In this seminar, you will learn about the latest technologies in geosynthetic applications and an understanding of soil behavior using different soil testing methods, which will explain a comprehensive overview of the intricate relationship between soil mechanics and geosynthetic applications.

## Who Should Attend:

Geosynthetics applications often involve collaboration between different engineering disciplines, such as geotechnical, civil, and environmental and hydraulics engineering. We encourage graduates and professional engineers from different disciplines to participate in this seminar, as well as contractors, researchers, and students interested in deeply understanding the latest geosynthetics applications and soil interaction behaviors.

## Programme - Day 1

Time	Description	Speaker
8.00am - 8.50am	Registration & Light Refreshment	
8.50am - 9.00am	Welcoming Address	
9.00am - 10.10am	Lecture 1: Geosynthetic Reinforced Soil Structures – Developments for Walls to Bridges	Prof. Fumio Tatsuoka, Mr Takuya Kosaka
10.10am - 10.40am	Morning Tea Break	
10.40am - 11.50am	Lecture 2: Geosynthetics Testing - What You Need to Know	Ir. Dr. Loke Kean Hooi
11.50am - 1.00pm	Lecture 3: Relevance of Tests and Trials to Real Pavements	Mr. Mike Dobie
1.00pm - 2.00 pm	Lunch	
2.00pm - 3.10pm	Lecture 4: Innovative Geotextiles with Enhanced Drainage Performance in Unsaturated Soils	Ir. Marcus Jong
3.10pm - 4.20pm	Lecture 5: Landslide Barriers - Design, Construction & Case Histories	Ir Saiffuddin bin Sheafi
4.20pm - 4.50pm	Afternoon Tea Break	
4.50pm - 6.00pm	Lecture 6 :Exploring the Versatility of EPS: Applications and Benefits in Embankment Construction	Ir Allan Chwee

# Programme - Day 2

Time	Description	Speaker
8.00am - 8.50am	Registration & Light Refreshment	
8.50am - 9.00am	Welcoming Address	
9.00am - 10.30am	Lecture 1: Effective Stress, Soil Strength and Triaxial Test	Mr. Mike Dobie
10.30am - 11.00am	Morning Tea Break	
11.00am - 12.30pm	Lecture 2: Effects of the Degree of Saturation on Soil Compaction Characteristics and the Properties of Compacted Soil	Prof. Fumio Tatsuoka
12.15pm - 1.30 pm	Lunch	
1.30pm - 2.50pm	Lecture 3: Measuring Soil Strength using the Shear Box: Dos and Don'ts	Mr. Mike Dobie
2.50pm - 4.20pm	Lecture 4: Collapse of Fujinuma Dam by the 2011 Great East Japan Earthquake and its reconstruction	Prof. Fumio Tatsuoka
4.20pm - 4.50pm	Afternoon Tea Break	
4.50pm - 6.00pm	Lecture 5 :Design & Construction of Reinforced Wall according to British Standard	Ir. Albert Lim

# Registration Form

No	Name (s)	M'Ship Number	Grade	Fee (RM)
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			ADD SST @6%	
			TOTAL PAYABLE	

\*Fees MUST be fully paid BEFORE the CLOSING DATE. Seats could only be confirmed upon payment. Enclosed herewith a crossed cheque No: \_\_\_\_\_ for the sum of RM \_\_\_\_\_ issued in favour of "The Institution of Engineers, Malaysia" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the cancellation term. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

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Signature & Stamp

Date

### **CANCELLATION POLICY**

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.

### **PERSONAL DATA PROTECTION ACT**

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

# Speakers' Biodata

**Professor Fumio Tatsuoka** is a distinguished academic and geotechnical engineer from Japan. He served as a Professor Emeritus at the University of Tokyo and Tokyo University of Science. Throughout his career, he held esteemed positions such as Vice President of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), President of the Japanese Geotechnical Society, Vice president of the Japanese Society of Civil Engineers, and President of the International Geosynthetic Society. Prof Tatsuoka area of research focuses on the deformation and strength characteristics of geomaterials, ground improvement and geosynthetic-reinforced soil structures. His contributions have been widely recognized, as evidenced by numerous prestigious awards, including the IGS award, Mercer Lectureship, multiple Hogentoglar awards from ASTM, Best Paper awards from Geosynthetics International Journal, the Bishop Lectureship from ISSMGE and The Kevin Nash Gold Medal from ISSMGE.



**Mr Takuya Kosaka** is a geotechnical engineer with diverse and successful experience in his field. He obtained his Master of Engineering degree from the Graduate School of Kanazawa University in 1992. He has worked as a consulting engineer at Chuo Fukken Consultants Co. Ltd since 1992. In 2010, Mr Kosaka held the position of Executive Director at Integrated Geotechnology Institute Co. Ltd. Currently, he serves as the First Chief of the Secretariat for the International Association of the RRR Construction System. Mr Kosaka has obtained his Professional Engineer Qualifications (Comprehensive Technical Management). He has been actively involved in technical publications, including a recent publication on "Evaluation and Improvement of Performance of Civil Engineering Structures" in 2019. Notably, he has received recognition for his work, including the JGS Social Contribution Award in 2015 for his contribution to seismic reinforcements for the upper embankment of Tamasaka Tunnel in using the RRR method in Japan.

**Mr. Michael Dobie** is a Geotechnical Engineer with more than 40 years of experience, including 28 years working in SE Asia (Singapore, Malaysia and Indonesia). He graduated from Bristol University with a BSc in Civil Engineering, then a few years later from Imperial College, London with an MSc in Soil Mechanics. His experience includes working for consulting engineers (WS Atkins & Partners and Acer Freeman Fox) and for geotechnical specialists (Delft Soil Mechanics Laboratory and Dames & Moore). One assignment consisted of setting up and running the Central Soils Laboratory (CSL) in Bangi, Malaysia for the North-South Expressway project. Since early 1991 Mike has been employed by Tensar International Limited as Regional Manager for Asia Pacific. He has had extensive input into the development of design methods and software, including the design of reinforced soil structures under seismic loading conditions.



**Ir. Dr. Loke Kean Hooj**, graduated Doctor of Philosophy (Phd) in Geosynthetics Engineering and a Bachelor of Engineering (Civil), with First Class Honours, from the University of Strathclyde, UK. Later in his career, he graduated Master of Business Administration (MBA) with Distinction, also from the University of Strathclyde, UK. He has been involved in the research, manufacturing, consulting, design, and teaching of geosynthetics for more than 25 years. He worked with several multinational companies dealing with geosynthetics in senior management positions and has been instrumental in developing geosynthetics applications in Malaysia. He has conducted many courses on geosynthetics applications and technology for the public and universities. He is also actively developing Malaysia test standards for geosynthetics in the working group, WG6 of Standard Malaysia.

**Ir. Allan Chwee** graduated from Universiti Teknologi Malaysia (UTM) with a Bachelor of Civil Engineering in 2011 and obtained his Master of Engineering in Geotechnical in 2017. He started his career as a civil site engineer for a high-rise project before he joined as a geotechnical consultant. He is now an engineering manager and country lead at Geoinventions Consulting Services Sdn Bhd, a consulting firm specializing in Geotechnical Engineering. He has actively published many technical papers on geotechnical engineering in international and local conferences. Ir Allan has more than 10 years of technical experience and has been involved in major infrastructure projects such as Tanjung Jati Cirebon Power Plant (Indonesia), Gemas - Johor Bahru Electrified Double Track, KL - Singapore High-Speed Rail (HSR), MRT Line 2 Underground, Klang Valley Double Track Phase 2, etc. He is a professional engineer registered with the Board of Engineer (BEM), Malaysia and also registered as ASEAN Chartered Professional Engineer (ACPE). Ir. Allan is also active in the professional community. He has been a committee member of the Geotechnical Engineering Technical Division (GETD) and Membership Drive & Promotion (MDP) of the Institution of Engineers, Malaysia (IEM) since 2019.



**Ir Saiffuddin** has a diverse background and experience as a consultant, contractor, and manufacturer in hydraulics and mining for local and international projects. He is a Professional Engineer with Practicing Certificate (PEPC) with 15 years of post-graduate experience. He has been involved in all aspects of civil engineering projects, starting from project defining and feasibility studies, project management, and finally, the construction, commission, and operations stage with traditional project delivery and EPCM models. His major assignments have included tailing and water dams, tunnel, and underground structures, mine waste dumps, rock slope stability, dam safety review and management, flood mitigation, and risk assessment. He is currently the Technical Manager in Maccaferri (Malaysia) Sdn Bhd.

**Ir. Marcus Jong** Graduated with a Bachelor of Engineering (Civil) from the University of Malaya with first class honours and was awarded the 'Professor Chin Fung Kee Prize'. Over 10 years of experience in geotechnical and geosynthetics engineering covering Asia and Asia Pacific regions, and 3 years of prior experience in structural engineering. A registered Professional Engineer with the Board of Engineers Malaysia (BEM) and a corporate member of the Institutions of Engineers, Malaysia (IEM). Has authored and presented several technical publications at international conferences including the 5th Asian Regional Conference on Geosynthetics in Bangkok in 2012, 6th Asian Regional Conference on Geosynthetics in New Delhi in 2016 and more. Currently co-supervising a university-industry collaborated Ph.D. research program with Monash University Malaysia.



**Ir. Albert Lim** is an accomplished professional engineer, currently holding the position of Senior Geosynthetics Manager at Solmax. He is responsible for driving the technical capabilities and marketing of geosynthetics products throughout the Asia Pacific region. With previous experience heading the Water and Environment Division, Albert was responsible for overseeing strategic plans, sales, product development, design and marketing plans for geosynthetics across Asia Pacific. Albert holds a Master of Science degree from the University of Mississippi, USA. He is a well-respected collaborator, working closely with renowned universities such as the National University of Singapore, Nanyang Technology University, and Monash University. Over the course of his 25-year technical career, he has authored and co-authored more than 30 technical papers for conferences both locally and overseas.

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